

## ABSTRACT OF THE DISCLOSURE

The invention relates to a method for the production of a three-dimensional multi-material component whereby successive layers of at least one material are printed by means of drop ink-jet-type printing. The inventive method comprises at the least the following steps consisting in: cutting (1) a representation of the multi-material component into remarkable objects; cutting (2) the representation of the component into print layers, as a function of said remarkable objects; for each print layer, establishing (3) a plurality of discrete spatial print path trajectories; for each print layer and for each discrete spatial trajectory, establishing (4) an assembly of printing parameters which are dependent on the nature of the deposited materials and the deposition conditions thereof; and establishing (5) a rule for the spatial and temporal sequencing of the print path of the print layers and of the discrete spatial trajectories as a function of the objects, the relative three-dimensional arrangement thereof and the characteristics of the printing device. In this way, the method of depositing each print layer can be optimised.